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MONTHLY STATISTICAL SUMMARY

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Paper Industry in 1979

Preliminary data show total production of paper and paperboard in 1979 at 64.7 million tons, 5% above the 61.6 million tons produced in 1978, establishing a new production high for the industry. Imports, including products, based on eleven months data, are estimated at 9.1 million tons, exports at 3.6 million tons, indicating a new supply total of 70.2 million tons, 4.2% ahead of 1978's 67.4 million tons. This compares to a 2.3% increase in the real gross national product and a 3.5% increase in total industrial production.

Paper and paperboard production started off slowly in the early months of 1979, under the impact of continuing strikes at some West Coast mills that started in mid-1978. However, by March, labor disruptions were minimal and the seasonally adjusted rate of production reached the 65 million tons level, which it held through the end of the year. In fact, the preliminary data for December 1979 show the seasonally adjusted rate a little above the March level. Preliminary data for the early weeks of 1980 indicate paper and paperboard production holding at these relatively high levels.

Technical Note: The API has discontinued collecting and publishing detailed weekly data on paperboard production. There will, however, be some summary paperboard data published on a weekly basis.

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Continued from Page 1

The pattern of relative strength and weaknesses among the various grades was established early in 1979 and continued throughout the year. Virtually all of the paper sectors with the exception of packaging grades, showed major gains. Newsprint, for example, rose by 9%, reflecting the start up of three new machines. The 4.1 million ton total reached in 1979 marked a new high in domestic production. Printing and writing papers, at 15.4 million tons, was 6% above the 1978 total, reflecting the resurgence in print advertising of all types, including magazines, newspaper inserts, commercial printing, mail order catalogues, direct mail, along with the continued strength in the demand for office copy papers, computer printouts and other types of form bond papers. Gains were reflected in all grades: uncoated groundwood, up 12.5%, uncoated free sheet papers, up 8.4%, and the cotton fiber papers up 10%. Coated paper shipments showed little change from the year-ago level, mainly because of capacity limitations.

While coated paper production showed no significant gain over its year-ago level and coated paper imports, at an estimated 193,000 tons, were down about 10% from the 214,000 tons imported in 1978, it appears that a part of the 825,000 tons of uncoated paper imported in 1979, was used in markets normally served by coated paper, such as magazines and fast-growing newspaper insert markets. Altogether, a record high 1.2 million tons of printing/writing papers were imported in 1979 to augment the domestic supply. At present, three major uncoated free sheet machines are coming into operation along with two coated groundwood paper machines. These will act to improve the total supply of printing papers in 1980.

Although kraft paper shipments showed only a 2.3% gain over the 1978 level, demand for kraft paper was relatively strong and that sector of the industry fully utilized its capacity.

Tissue paper production at 4.5 million tons, was nearly 8% over the year-ago total, and established a new high for this product.

Total paperboard production in 1979 reached a new high of 31.4 million tons, 3.9% over the year-ago total. The gains, as has been the case all year, were centered on the container-board grades, with kraft linerboard production up 5.4%, and semichemical paperboard production up 5.7%.

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PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS

(Thousands of Tons)

	YEAR 1977	YEAR 1978	SEPT 1979	OCT. 1979	NOV. 1979	DEC. 1979	Annual Rate Y-T-D 1979	% Change from same Period Last Year
PAPER					R	P		
Newsprint - Production	3870	3768	340	371	367	355	4109	9.1
- Shipments	3866	3779	339	371	364	355	4105	8.6
Printing & Writing	13865	14545	1249	1384	1312	1181	15411	5.9
Groundwood Paper - Shipments	1331	1309	119	133	129	115	1472	12.5
- New Orders	1336	1367	124	139	104	111	1475	7.9
- Unfilled Orders	137	179	204	207	191	182	182	1.6
Coated Paper - Shipments	4261	4448	364	406	381	337	4481	0.7
- New Orders	4279	4428	348	378	394	351	4500	1.6
- Unfilled Orders	398	404	432	408	432	411	411	1.6
Unctd Free Sheet - Shipments	6777	7225	632	708	665	600	7832	8.4
- New Orders	6833	7542	628	678	635	565	7764	2.9
- Unfilled Orders	436	754	756	730	744	656	656	-13.0
Thin Paper - Production *	362	354	31	31	31	29	377	6.4
Cotton Fiber Paper - Shipments	108	114	10	11	11	10	126	9.8
Bleached Bristols -Production*	1026	1095	92	95	96	90	1124	2.7
Tissue Paper - Production	4286	4215	367	397	374	350	4540	7.7
Total Packaging & Other Paper	5390	5314	460	499	476	445	5714	7.5
Unbl. Kraft Paper - Shipments	3815	3884	319	348	336	310	3971	2.3
Other Paper - Production * ♦	1575	1430	141	152	140	135	1742	21.8
TOTAL PAPER-Production-UnadJ.	27411	27842	2416	2651	2529	2331	29774	6.9
-Production-S.A.			2501	2525	2532	2451	29796	6.9
PAPERBOARD - PRODUCTION							♦♦	
Solid Wood Pulp Furnish	21636	22790	1935	2098	2039	1731	23821	4.5
Unbl. Kraft Linerboard - Total	12573	13228	1142	1251	1190	1039	13937	5.4
Production for Export	1290	1466	126	141	148	120	1584	8.0
Other Unbl. Kraft Paperboard	1078	1145	89	101	109	59	1204	5.2
Semichemical Paperboard	4264	4439	387	403	398	347	4694	5.7
Production for Export	122	119	6	7	6	4	91	-24.0
Solid Bleached Paperboard	3721	3979	318	343	342	285	3985	0.2
Production for Export	389	430	33	37	38	30	431	0.3
Recycled Paperboard	7317	7485	622	675	631	567	7624	1.9
Production for Export	30	22	1	2	1	2	18	-14.3
TOTAL PAPERBOARD-Prod.-UnadJ.	28953	30275	2558	2773	2669	2298	31445	3.9
- Production - S.A.			2670	2586	2651	2716	31498	3.8
- New Orders	29022	31194	2555	2854	2605	2234	32022	2.7
- Unfilled Orders	1037	1370	1622	1594	1484	1353	1353	-1.3
WET MACHINE BOARD *	128	142	13	15	13	12	138 R	-2.6
BUILDING PAPERS *	1850	1956	148	171	160	140	1911	-2.3
INSULATING BOARD *	1435	1417	116	128	115	100	1430	0.9
TOTAL ALL GRADES - UnadJusted	59778	61632	5250	5738	5486	4881	64698	5.0
- Production - S.A.			5446	5406	5476	5455	64778	5.0
HARD PRESSED BD. [not in total]*	2237	2180	187	201	175	155	2150	-1.4

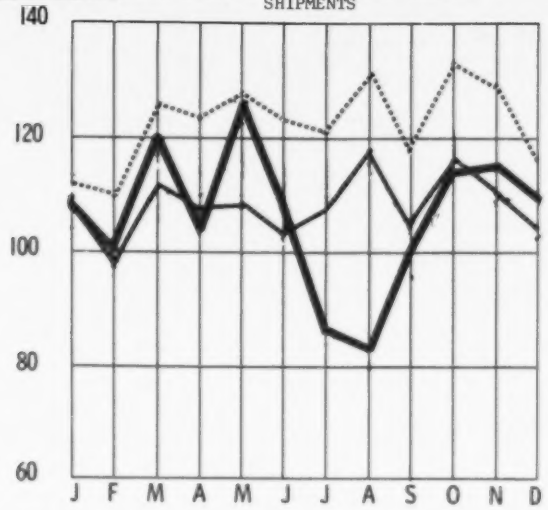
* Census Data - Production. Last two months estimated.
♦ Production excludes API bleached kraft envelope.
♦♦ Includes revisions not available monthly.

S.A. Seasonally Adjusted
P Preliminary
R Revised

THOUSANDS OF TONS

GROUNDWOOD PAPER, UNCOATED

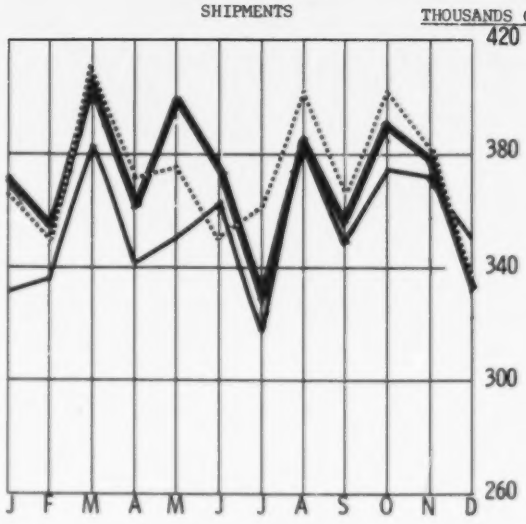
SHIPMENTS



COATED PAPER

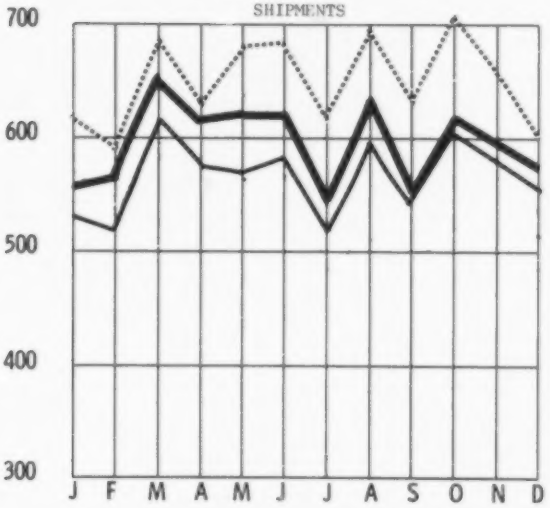
SHIPMENTS

THOUSANDS OF TONS



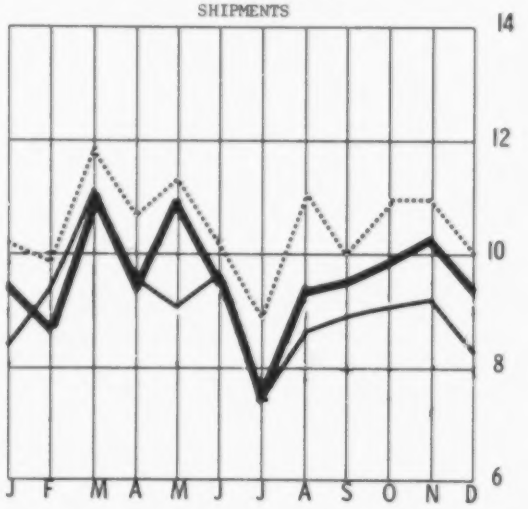
UNCOATED FREE SHEET PAPERS

SHIPMENTS



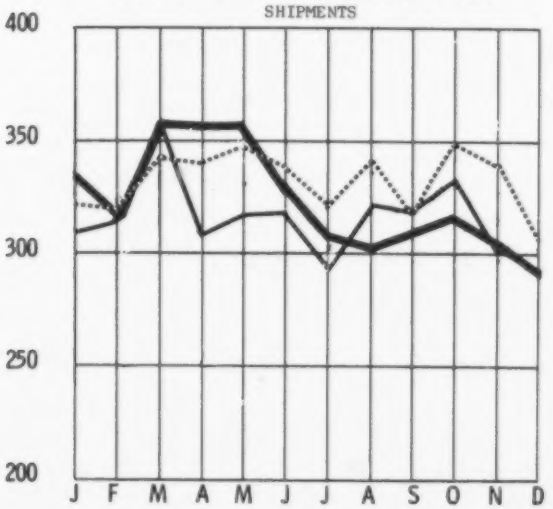
COTTON FIBER PAPER

SHIPMENTS



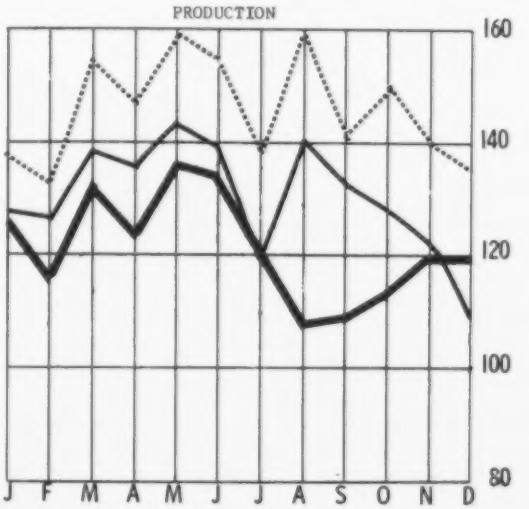
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1977 —— 1978 ▬▬ 1979 ·····

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1977	YEAR 1978	AUG. 1979	SEPT 1979	OCT. 1979	NOV. 1979	Annual Rate Y-T-D 1979	% Change from same Period Last Year
TOTAL WOOD PULP (1)					R	P		
Total Wood Pulp - Production	46652	47662	4393	4088	4470	4304	50501	5.2
- Imports	3864	4025	378	323	358	373	4339	8.6
- Exports	2640	2599	247	275	265	255	2885	10.7
- New Supply	47877	49088	4524	4136	4563	4422	51955	5.2
Dissolving Pulp - Production	1467	1411	155	109	148	130	1505	5.0
- Imports	181	189	19	24	9	20	187	-4.7
- Exports	796	758	71	63	64	67	752	-3.1
- New Supply	852	842	103	69	93	83	940	10.1
Paper Grades - Production	36897	37847	3409	3213	3491	3362	39687	4.0
Chemical Pulp - Imports	3481	3627	331	285	333	340	3948	9.7
- Exports	1763	1780	171	203	193	180	2063	16.7
- New Supply	38615	39694	3569	3295	3631	3521	41572	4.0
Groundwood and - Production	4403	4373	387	370	389	378	4486	2.6
Thermo-Mech. - Imports	203	208	27	14	16	13	204	2.1
- Exports	81	62	4	8	8	8	70	9.7
- New Supply	4525	4519	410	375	396	383	4620	2.4
Semi-Chemical - Production	3886	4031	441	397	442	435	4824	19.1
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp	------
- New Supply	3886	4031	441	397	442	435	4824	19.1
MARKET WOOD PULP								
Total Market - Production	4819	5165	516	482	532	509	5715	9.4
Wood Pulp - Imports	2684	2816	240	227	251	265	3069	9.0
- Exports	2359	2480	238	287	231	249	2751	10.6
- New Supply	5144	5501	518	421	552	526	6033	8.6
Dissolving Pulp - Production	1465	1406	155	108	147	130	1505	5.4
- Imports	256	291	29	28	13	25	316	6.5
- Exports	798	824	93	87	63	77	855	3.8
- New Supply	923	873	91	49	97	78	966	7.2
Paper Grades - Production	3263	3675	354	367	378	373	4148	11.7
Chemical Pulp - Imports	2394	2495	210	198	237	240	2746	10.4
- Exports	1515	1613	141	198	164	168	1851	14.2
- New Supply	4143	4557	423	368	452	445	5043	10.1
Groundwood Pulp - Production	90	83	6	7	6	7	62	-25.2
and All Other - Imports	35	26	1	0	2	0	7	-75.3
- Exports	46	42	4	2	4	4	45	8.1
- New Supply	80	67	3	5	3	3	23	-66.0

(1) Prodctn excludes defibrated, exploded & screenings-(000 tons): 1977 - 3218; 1978 - 3155;A.R.Y-T-D'79 - 3181
SOURCES: Total Wood Pulp Imports & Exports - Department of Commerce. Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp & Raw Materials Group, API.

FIBROUS RAW MATERIALS
(Thousands of tons)

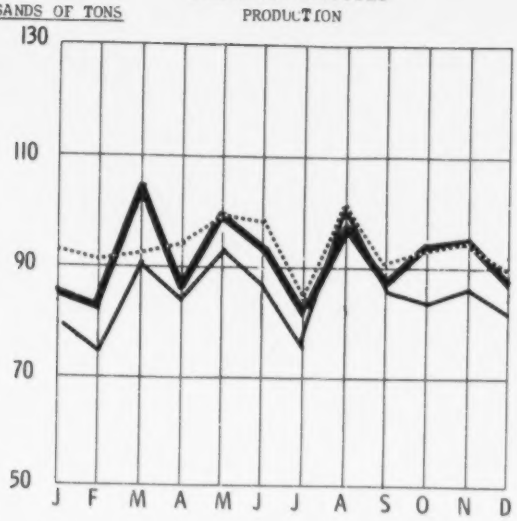
CONSUMPTION AT PAPER & BD. MILLS					R	P		
Total	62399	64203	5844	5469	5953	5819	67666	5.0
Total Wood Pulp (2) A	47596	48777	4465	4171	4513	4368	51490	5.0
Market Wood Pulp A	4216	4774	418	395	438	435	5075	6.3
Waste Paper (3) A	14058	14760 R	1323	1246	1385	1397	15520 R	5.1
Rags, Straw & Other C, E	745	666	56	52	56	54	656	-2.1
INVENTORIES								
Wood Pulp at Pulp Mills A	193	130	122	114	112	117	117	-21.5
Market Pulp at Pulp Mills A	277	187	166	146	152	158	158	-27.5
Mkt Pulp at Ppr.& Bd. Mills CE	404	435	438	386	388	370	370	-12.6
Waste Ppr.at Ppr.&Bd. Mills CE	728	740	636	633	642	620	620	-12.6
Rags, Straw and Other at Paper and Board Mills C, E	67	66	61	62	62	60	60	-9.1
Mkt Wood Pulp Days of Supply A	55	44	42	37	36	34	34	-24.7
Wood Pulp Consumption at at Non-Paper Mills C, E	876	884	76	70	81	75	913	4.0

A - Pulp & Raw Materials Group, API; C - Bureau of the Census; E - Most Recent Month Estimated by API
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons
(2) Excludes consumption of defibrated & exploded pulp for hard pressed bd.: 1977 - 1,688,000; 1978 - 1,655,000 ton
(3) Census Waste Paper Consumpt.(000 tons): 1977 - 12192; 1978 - 13185; 1979(Annual Rate Jan-Oct) 13042

BLEACHED BRISTOLS

PRODUCTION

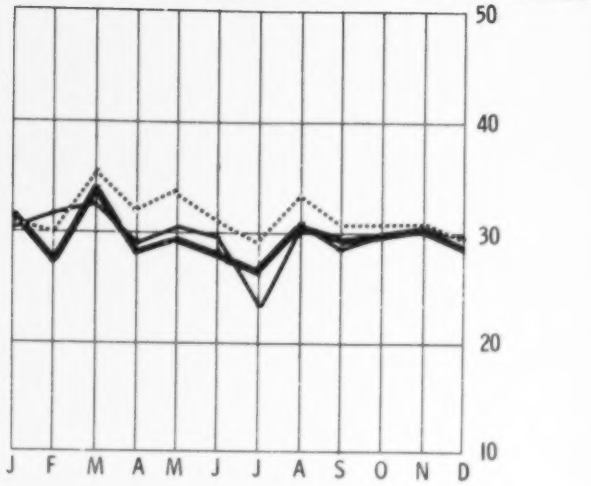
THOUSANDS OF TONS



THIN PAPERS

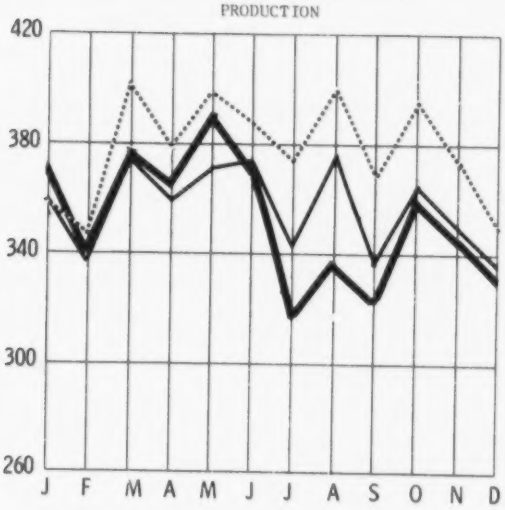
PRODUCTION

THOUSANDS OF TONS



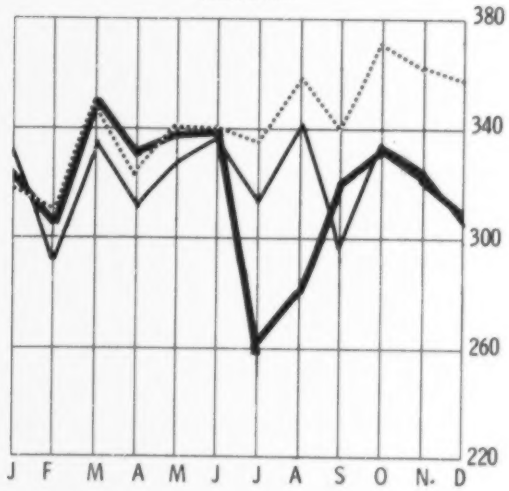
TISSUE PAPER

PRODUCTION



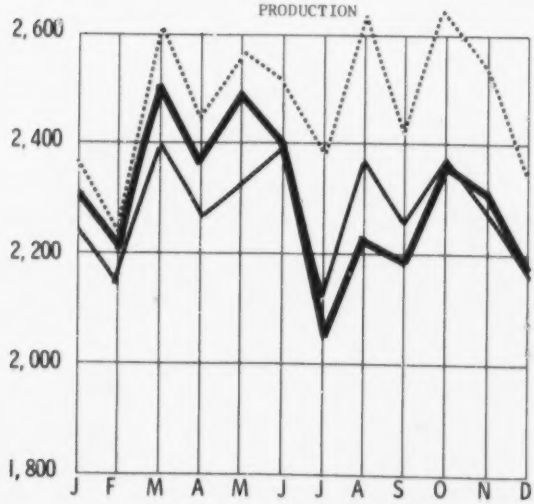
NEWSPRINT

PRODUCTION



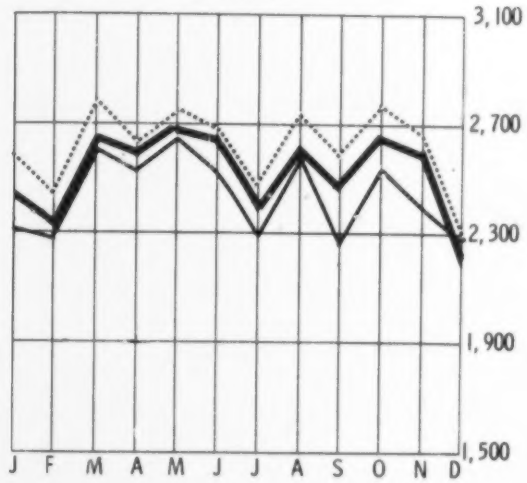
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1977——— 1978▬▬▬ 1979·····

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1977	YEAR 1978	AUG. 1979	SEPT 1979	OCT. 1979	NOV. 1979	Annual Rate Y-T-D 1979	% Change from same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	74034	77025	6955	6465	7505	6557	78705	2.0
	- Total Consumpt.	74807	77290	6644	6448	7103	6723	80192	3.1
	- Residues *	30112	30369	2707	2444	2915	2317	30398	-0.4
	- Inventories	6187	6244	4847	4943	5320	5110	5110	-14.5
So. Atlantic	- Total Receipts	23727	25353	2224	2080	2393	2202	26207	3.3
	- Total Consumpt	23820	25204	2158	2194	2385	2240	26824	5.7
	- Residues *	7880	8513	766	698	807	718	8929	4.9
	- Inventories	1003	1191	972	894	911	880	880	-16.1
Northeast	- Total Receipts	5954	6664	656	611	649	662	7465	12.8
	- Total Consumpt	6250	6607	625	554	661	681	7624	15.9
	- Residues *	1426	1662	158	129	143	147	1699	2.8
	- Inventories	584	770	625	684	680	654	654	-14.3
South Central	- Total Receipts	24367	25572	2332	2157	2568	2178	26650	4.6
	- Total Consumpt	24394	25678	2232	2096	2308	2154	26654	3.4
	- Residues *	8415	8418	721	673	787	655	8785	4.2
	- Inventories	1279	1194	874	979	1243	1281	1281	21.1
North Central	- Total Receipts	4996	5291	539	480	518	452	5521	5.3
	- Total Consumpt	5261	5330	453	438	448	474	5569	4.3
	- Residues *	1430	1456	131	126	142	138	1510	6.6
	- Inventories	1029	968	786	832	885	857	857	-6.9
West	- Total Receipts	14990	14145	1204	1137	1377	1063	12862	-10.9
	- Total Consumpt	15082	14471	1176	1166	1301	1174	13520	-8.2
	- Residues *	10961	10320	931	818	1036	659	9476	-9.7
	- Inventories	2292	2121	1590	1554	1601	1438	1438	-34.2

* - Consumption of Residues in Cord Equivalents.
SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 1978 Tons	YEAR 1978 $000	OCT. 1979 Tons	OCT. 1979 $000	NOV. 1979 Tons	NOV. 1979 $000	Annual Rate Y-T-D 1979	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	267517	11155	26097	1139	16647	704	207307	-17.9
Pulpwood Chips	1817114	34737	173509	3555	137231	2838	1551605	-16.6
Wood Pulp, Total	3847590	1041860	358021	128032	348591	128864	4149724	9.1
Waste Fibrous Materials, Total	99872	13581	3326	549	8374	1296	93013	-8.9
Paper,Paperboard&Products,Total	8666058	2496771	717606	241702	735815	258585	8485680	-3.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. *	8625089	2454161	713399	236555	731663	253800	8441305	-3.1
Paper, Total	8209265	2382065	669161	228189	699763	246728	7997787	-3.6
Newsprint	7477824	2108925	576311	187537	618252	210180	7041135	-7.1
Printing,Writing & Rel.Pap.	592897	215790	81148	34298	71737	31397	818178	40.4
Pack. & Ind. Conv. Paper	126672	50896	9710	4987	8615	4269	117893	-4.3
Special Industrial Paper	556	595	305	388	352	444	3238	700.4
Tissue Paper	11315	5860	1688	979	808	438	17342	56.2
Paperboard, Total	97162	16488	7381	1616	7679	1896	77380	-20.3
Wet Machine Board	1437	758	197	88	35	19	1459	1.9
Construction Paper and Bd. *	317225	54849	36660	6662	24187	5158	364679	13.5
Convtd Paper&Paperbd Products	40970	42611	4206	5147	4151	4786	44375	11.2

EXPORTS TO CANADA

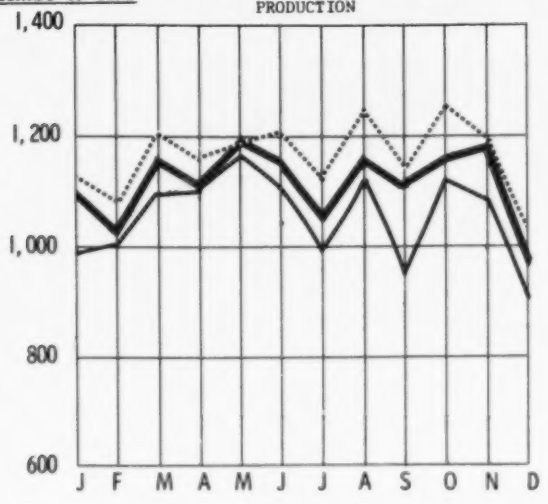
Pulpwood, Roundwood (in cords of 128 cubic feet)	216233	8823	14933	629	16611	814	273999	30.0
Pulpwood Chips	89406	4695	8707	210	3404	82	94657	7.9
Wood Pulp, Total	98813	32570	9514	3846	14825	5707	139426	40.0
Cotton Pulp & Other Pulp	12291	4437	298	142	688	419	8002	-38.0
Waste Paper	341671	33467	60077	5994	37143	4098	473633	42.3
Paper,Paperboard&Products,Total	667324	356156	53546	32440	55165	31583	633151	-6.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board *	469501	232442	37590	21665	39235	21302	457662	-3.6
Paper, Total	196765	143884	15909	13254	16586	12558	181789	-9.2
Newsprint	2368	1794	94	96	177	135	2938	26.5
Printing,Writing & Rel.Pap.	115565	80005	10774	7815	8185	6089	108774	-7.5
Pack. & Ind. Conv. Paper	28732	13338	1563	993	1084	1057	16390	-44.6
Special Industrial Paper	40579	41156	3097	4121	6725	4887	45794	11.8
Tissue	9522	7592	381	228	415	390	7893	-18.1
Paperboard, Total	220964	70738	18991	7032	19834	7430	233289	5.1
Wet Machine Board	4906	2446	483	296	288	184	5358	13.5
Construction Pap. & Bd. E *	46866	15374	2208	1084	2526	1129	37226	-22.0
Convtd Paper&Paperbd Products	197823	123714	15955	10775	15930	10281	175489	-12.1
* - Hard Pressed Board (not in total)								
Imports of Hard Pressed Bd.	22803	3622	4545	787	3895	706	29727	28.9
Exports of Hard Pressed Bd.	18926	5216	1592	536	1075	371	21280	13.0

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

UNBLEACHED KRAFT LINERBOARD

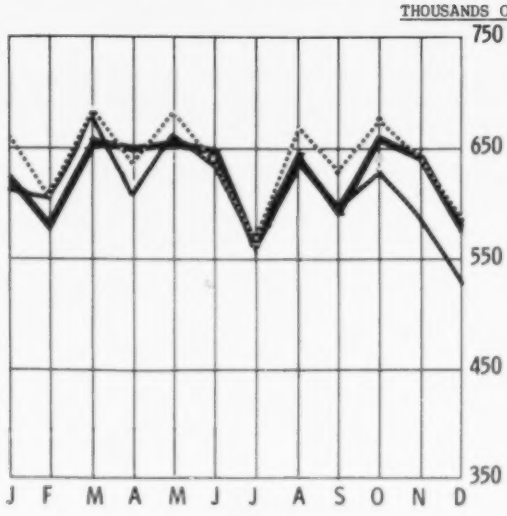
PRODUCTION

THOUSANDS OF TONS



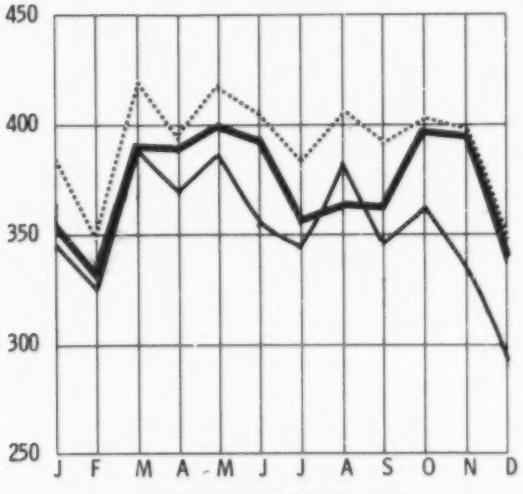
RECYCLED PAPERBOARD

THOUSANDS OF TONS



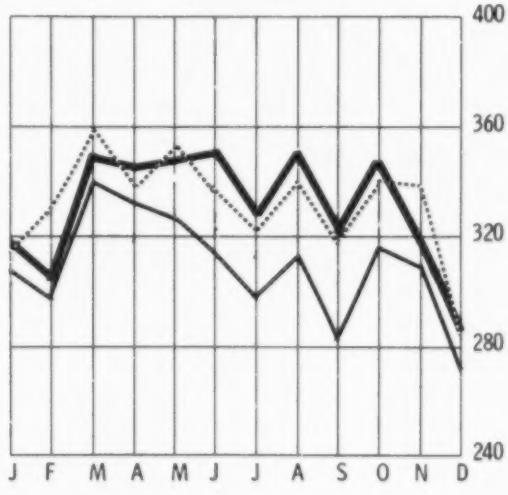
SEMI-CHEMICAL PAPERBOARD

PRODUCTION



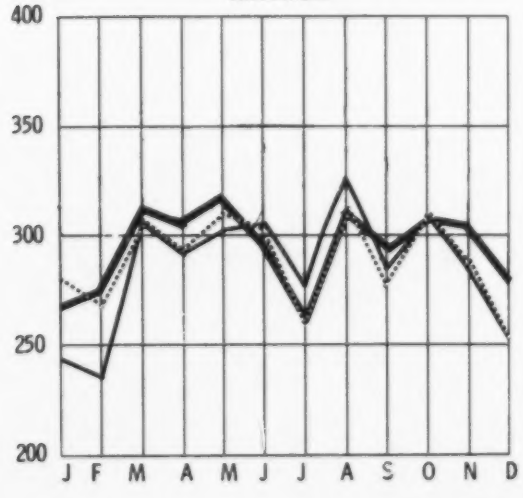
SOLID BLEACHED PAPERBOARD

PRODUCTION



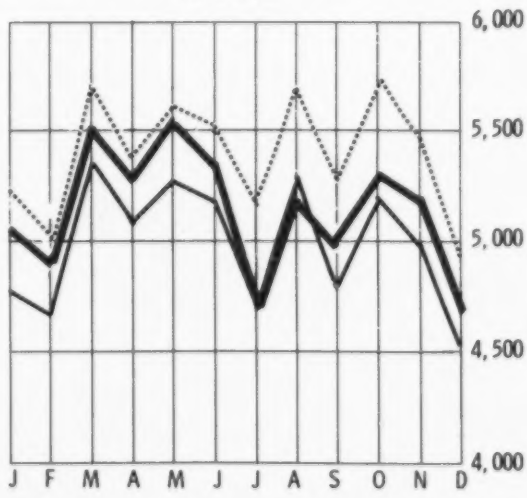
WET MACHINE BOARD AND BUILDING PAPER AND BOARD

PRODUCTION



TOTAL PAPER AND BOARD

PRODUCTION



1977 ——— 1978 ▬▬▬ 1979 .....

PULP, PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1978 Tons	YEAR 1978 $000	OCT. 1979 Tons	OCT. 1979 $000	NOV. 1979 Tons	NOV. 1979 $000	(1) Annual Rate Y-T-D 1979	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	270662	11481	26121	1140	16647	704	207333	-19.0
Pulpwood Chips	1819169	34864	173509	3555	137231	2838	1602910	-13.9
Total All Imports	13267526	3926572	1129870	410091	1169601	433503	13568432	1.8
Wood Pulp, Total	4024560	1086438	358021	130116	373119	136904	4338505	8.6
Waste Paper	69440	7253	1936	209	7426	1089	65809	-7.0
Other Fibrous Materials	56093	16854	2851	1048	2486	938	45560	-20.0
Paper,Paperbd&Products,Total	9117433	2816028	767063	278718	786569	294572	9118558	-1.0
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	9024340	2640421	758596	257463	777778	273144	9021591	-1.0
Paper, Total	8591929	2562762	712273	248670	743630	265491	8553467	-1.5
Newsprint	7483720	2111648	590134	192077	635558	216843	7187494	-5.2
Printing & Writing	958157	385371	109397	49367	97517	42619	1204548	26.9
Uncoated Groundwood	521602	177010	76869	29906	72582	27419	826425	62.4
Uncoated Book	203204	78744	12566	6487	8868	4733	145909	-29.5
Coated Print.& Impreg. Pap	213658	109204	16662	9778	11387	6742	192483	-10.4
Bristols	618	427	174	83	76	51	2355	358.9
Writing and Similar Paper	11748	14284	2449	2470	3252	2634	22827	109.4
Thin (except Cigarette)	7327	5703	677	643	1351	1040	14549	92.4
Total Pkg & Other Paper	138132	59377	11051	6241	9747	5592	143785	6.7
Unbleached Kraft Paper	64623	19296	5196	2082	4164	1625	68176	8.7
Other Pkg. & Indust. Paper	73509	40081	5856	4159	5584	3967	75609	5.0
Tissue	11920	6366	1691	986	808	438	17641	51.2
Paperboard, Total	100102	18283	7426	1664	7750	1967	79016	-21.2
Test or Containerboard	31860	5185	2741	656	3069	770	22068	-32.3
Semi-Chemical Corrugating	48027	7412	3411	612	2278	415	34732	-27.5
Other Paperboard	20215	5685	1275	396	2403	782	22216	12.5
Wet Machine Board	2717	1497	224	103	118	99	2305	-17.3
Construction Paper & Bd. *	329593	57879	38674	7025	26281	5587	386803	15.9
Building Paper	271870	47017	33048	5847	21790	4604	333926	21.1
Insulating Board	25392	4997	2160	419	1824	375	22417	-11.0
Other Building Board	32331	5865	3446	759	2667	608	30460	-7.2
Convtd Paper&Paperbd Products	93093	175607	8467	21255	8791	21428	96967	4.3
Paper Products, Total	86791	164651	7890	19525	8348	20568	91126	5.4
Paperboard Products, Total	6302	10956	577	1730	443	860	5841	-9.7
Notes								
Other: No Weight Avail. ($000)		78967		6926		7094	82531	4.8
Total Imports Incl. Other($000)		4005539		417017		440597	4750622	18.7

EXPORTS

	YEAR 1978 Tons	YEAR 1978 $000	OCT. 1979 Tons	OCT. 1979 $000	NOV. 1979 Tons	NOV. 1979 $000	(1) Annual Rate Y-T-D 1979	% Change from same Period Last Year
Pulpwood, Roundwood (in cords of 128 cu. ft.)	218270	8960	14933	629	16611	814	274385	29.0
Pulpwood Chips	3617574	156779	348136	16583	429312	20147	4474990	25.3
Total All Exports	7659628	2571426	841784	319462	781778	300570	8839741	15.3
Wood Pulp,Total	2598952	817102	264612	103085	255453	101273	2885287	10.7
Cotton Pulp and Other Pulp	88481	47987	14004	8044	10285	5837	129116	43.1
Waste and Old Paper	1599449	145884	222755	25315	205900	24696	2184591	37.4
Paper, Paperbd&Products, Total	3372746	1560452	340413	183018	310140	168763	3640747	7.7
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	2895732	1108079	289547	128855	260134	116275	3080548	6.0
Paper, Total	542675	415574	56408	47364	52457	44054	562815	2.1
Newsprint	82454	29947	10843	4418	10796	5090	67658	-21.6
Printing & Writing	266096	208801	24821	22512	19319	18634	272650	1.1
Uncoated Groundwood	58109	37154	5950	4578	5691	4943	80328	40.6
Clay Coated Paper	73592	54358	6800	5662	5693	4485	73414	-1.2
Uncoated Free Sheet	84896	66185	7326	6538	4496	4852	66541	-24.5
Other Printing & Writing	49500	51103	4744	5734	3440	4354	52367	4.4
Total Pkg. & Other Paper	172995	159013	18079	17958	20639	18551	194887	11.7
Unbleached Kraft	45442	17440	7390	3212	7495	3568	57391	25.9
Other Pkg. & Indust. Paper	127553	141573	10689	14746	13144	14983	137496	6.7
Tissue	21130	17814	2666	2475	1703	1779	27621	31.2
Paperboard, Total	2281653	662216	228429	79087	202954	69761	2455496	7.6
Solid Wood Pulp	2078118	576605	209438	71263	188083	63320	2277096	9.7
Total Linerboard	1539510	344110	153807	44506	126238	35130	1626733	5.6
Bleached Kraft Linerboard	194421	50671	17089	5141	5523	1916	174701	-9.4
Unbleached Kraft Linerbd	1345089	293439	136718	39365	120716	33215	1452032	7.8
Other Unbleached Kraft	65833	22330	7173	2449	11734	3913	99171	45.9
Other Bleached Kraft	440724	204423	45527	23426	46840	23288	533005	23.2
Semi-Chemical Corrugating	32051	5742	2932	883	3271	988	18187	-46.9
Recycled Paperboard	203535	85611	18990	7824	14872	6440	178401	-13.6
Wet Machine Board	7554	4805	562	406	491	414	7457	1.1
Construction Paper & Bd. *	63850	25485	4149	1998	4232	2047	54779	-15.1
Building Paper	37166	13220	2497	1146	2654	1219	33710	-8.2
Insulating Board E	26684	12265	1652	853	1579	828	21069	-24.3
Convtd Paper&Paperbd Products	477014	452373	50866	54163	50005	52488	560200	18.1
Paper Products, Total	274884	326728	30125	39531	30761	39166	333657	22.2
Paperboard Products, Total	202130	125645	20741	14632	19244	13322	226542	12.6
Notes								
Other: No Weight Avail. ($000)		7523		980		761	8768	15.6
Total Exports Incl. Other($000)		2578949		320442		301331	3296237	28.5
* Hard Pressed Board (not in total)								
Imports of Hard Pressed Board	295729	40483	23687	4157	20880	3283	260984	-11.5
Exports of Hard Pressed Board	25571	8541	2823	917	1617	673	33087	29.5

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PAPER AND PAPERBOARD PRODUCTION

CENSUS DATA

(Thousands of Tons)

	YEAR 1977	YEAR 1978	JULY 1979	AUG. 1979	SEPT 1979	OCT. 1979	Annual Rate Y-T-D 1979	% Change from same Period Last Year
PAPER					R	P		
Newsprint	3525	3535	291	342	299	351	3731	5.0
Uncoated Groundwood Papers	1578	1525	130	141	133	152	1675	9.6
Coated Papers	4189	4514	386	419	373	413	4662	2.8
Uncoated Free Sheet (1)	6914	7358	585	647	602	680	7498	1.4
Cotton Fiber Paper (1)	118	119	9	11	10	11	128	8.9
Thin Papers	362	354	29	33	31	31	380	7.4
Bleached Bristols	1034	1094	84	102	92	95	1126	2.9
Tissue Paper	4262	3957	356	385	343	392	4353	8.5
Unbleached Kraft Packaging & Industrial Conv. Papers(1)	3980	3887	313	342	327	358	3915	-1.6
Other Paper (1)	1529	1385	137	158	141	152	1761	26.2
TOTAL PAPER GRADES	27491	27729	2319	2579	2352	2634	29228	4.5
PAPERBOARD								
Solid Wood Pulp Furnish	21689	21536	1874	2006	1816	2021	22900	5.7
Unbleached Kraft Linerboard	12880	13127	1132	1205	1076	1224	13780	4.3
Other Unbl. Kraft Paperboard	820	880	90	89	76	71	1025	16.4
Bleached Kraft Paperboard	3851	3604	317	357	327	358	3927	7.7
Semi-Chemical Paperboard	4139	3924	336	354	337	368	4167	5.8
Recycled Paperboard	7036	7187	513	616	592	661	7218	-0.6
TOTAL PAPERBOARD GRADES	28725	28723	2387	2622	2408	2681	30117	4.1
WET MACHINE BOARD	128	142	8	13	13	15	137 R	-4.3
CONSTR. PAPER & INSUL. BOARD	3286	3374	254	304	264	299	3391	0.4
TOTAL ALL GRADES (Excl. H.P.B.)*	59630	59967	4968	5518	5037	5629	62873	4.1

PRODUCER PRICE INDEXES

1967 = 100

	1977	1978	SEPT	OCT.	NOV.	DEC.		
Pulp, Paper and Products	186.4	195.6	222.8	227.2	229.3	231.0	218.9	11.9
Pulp, Paper & Products, excl. Waste Paper ◊	186.4	195.6	223.1	227.5	229.5	231.2	219.1	12.0
Total Wood Pulp	281.1	266.5	320.6	339.4	339.9	339.9	314.8	18.1
Total Paper	194.3	206.1	230.6	239.0	242.1	243.0	229.7	11.5
Total Paper, exc. Newsprint	187.2	199.4	225.0	231.3	234.5	234.7	222.9	11.8
Newsprint	215.5	226.3	247.7	262.1	265.1	268.2	249.9	10.4
Total Paperboard	176.2	179.6	209.5	211.2	212.8	215.4	202.1	12.5
Total Paper and Paperboard ◊	188.7	197.8	224.0	230.3	232.9	234.3	221.0	11.7
Converted Products	176.6	186.5	213.9	216.5	218.4	220.3	209.6	12.4
Waste Paper	187.2	191.2	206.7	206.7	220.0	221.2	206.6	8.1
All Commodities	194.2	209.3	241.7	245.2	246.9	249.4	235.4	12.5
Industrial Commodities	195.1	209.4	243.8	248.5	250.2	252.8	236.3	12.8

(1) - Grade definitions revised by Census as of January 1979. New grades now consistent with API definitions. 1977 and 1978 Census data adjusted by API for comparability with 1979.

* See page 3 for Hard Pressed Board data. ◊ Computed by API P-Preliminary R-Revised

SOURCES: Production - Bureau of Census, U.S. Department of Commerce
Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor

Total production of containerboard for domestic use rose 5.6% over its year-ago level, compared to an estimated 2.8% increase in shipments of fiber boxes. The difference in the growth pattern reflected changing patterns of inventories at paperboard mills and box plants. In 1978 inventories at paperboard mills and box plants were reduced by nearly 500,000 tons; the December 1, 1979 level of these inventories were close to their year-end 1978 level. At the present time inventories at mills and box plants are at fairly low levels.

Total boxboard production for domestic use did not quite match its year-ago total, with bleached and recycled folding boxboard each holding very close to their 1978 levels and set-up boxboard off about 3.5%. Solid bleached paperboard production also remained in a flat trend from 1978 to 1979. Milk carton stock rose slightly, but the other food service grades, except folding boxboard showed declines. Bleached kraft exports increased slightly, "Other" uses of bleached board rose 17%.

Capital Expenditures

The strong demand for paper and paperboard evident in 1979 is reflected in major increases in capital expenditures. Recent announcement by the Department of Commerce noted that paper industry companies, which spent $4.84 billion in new plant and equipment in 1979, would increase these expenditures by 23% to $5.96 billion in 1980. This is one of the largest increases expected among the various industries covered. Commerce reported that total expenditures on plant and equipment for all business would rise by 10.9%, to a level of $196 billion. Commerce further pointed out that they expected real growth in capital expenditures to be in the 1% to 2% range.

Raw Materials

The Wood Pulp Division of the API reports that total production of wood pulp in the first eleven months of 1979 was at an annual rate of 50.5 million tons, up 5.2% from the 1978 total. Dissolving pulp production, used for rayon, acetate, and other non-paper products showed a 5%

Continued on Page 12

Continued from Page 11

gain. However, in this sector imports fell by 5%, exports, which are about four times as large as imports, dropped 3%, with the result that new supply rose by 10%, pointing to a strong domestic market for these products. The chemical paper grades of wood pulp showed a 4% gain, which was only a little below the increase in total paper and paperboard production.

Among the market pulp grades, preliminary data indicate that production of chemical paper grade market pulp in 1979, at 4.15 million tons, was nearly 13% above the year-ago total. In this sector, exports, at 1.86 million tons, were some 15.5% over their year-ago level, while imports, at about 2.7 million tons, showed a 10% gain. Thus, domestic demand for chemical paper grade pulps exceeded 5 million tons for a gain of 10%. These were all record-high figures and were consistent with the strong demand for printing/writing papers, a major market for these pulps.

Waste Paper

The API publishes monthly estimates of waste paper consumption at paper and board mills in the table on page 5 and on the Industry Data Sheet. These estimates are based on weekly data collected by the API and cover about 55% of the total waste paper used in the U.S. In addition, the API collects annual data on waste paper consumption at all paper and paperboard mills, as part of its annual survey of capacity. Based on this latter report, it appears that total consumption of waste paper at paper and paperboard mills in 1979 amounted to 15.4 million tons, about 4% over the 14.76 million tons used in 1978.

The Department of Commerce reports on exports of waste paper. Based on eleven months data we estimate these exports at 2.1 million tons. Use of waste paper for molded pulp products, insulation, cushioning and other products, amounted to another 500,000 tons net of waste paper imports. These figures show that total waste paper collections in 1979 reached 18 million tons which was equivalent to 25.6% of the total new supply of paper and paperboard products in 1979, and about 32% of the paper and paperboard supply available for recycling.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

JANUARY 17, 1980

	PRODUCTION (000 TONS)					
	Dec. 1979	Nov. 1979	Dec. 1978	Jan - Dec. 1979	Jan - Dec. 1978	% Change 79/78
PAPER GRADES	P	R				
Newsprint	355	367	309	4109	3768	9.1
Uncoated Groundwood (s)	115	129	111	1472	1309	12.5
Coated Paper (s)	337	381	334	4481	4448	0.7
Uncoated Free Sheet Paper (s)	600	665	578	7832	7225	8.4
Thin Paper (c)	29	31	28	377	354	6.4
Cotton Fiber Paper (s)	10	11	9	126	114	9.8
Bleached Bristols (c)	90	96	88	1124	1095	2.7
Tissue Paper	350	374	328	4540	4215	7.7
Unbleached Kraft Packaging & Indl. Converting (s)	310	336	296	3971	3884	2.3
Other Paper (c)	135	140	111	1742	1430	21.8
TOTAL PAPER	2331	2529	2192	29774	27842	6.9
PAPERBOARD GRADES						
Kraft Linerboard, Unbleached	1039	1190	960	13937	13228	5.4
Other Kraft Paperboard	59	109	71	1204	1145	5.2
Semichemical Paperboard	347	398	338	4694	4439	5.7
Bleached Paperboard	285	342	284	3985	3979	0.2
Recycled Paperboard	567	631	561	7624	7485	1.9
TOTAL PAPERBOARD	2298	2669	2213	31445	30275	3.9
CONSTRUCTION & WET MACH GRADES(c)	252	288	276	3479	3515	-1.0
TOTAL PAPER AND PAPERBOARD	4881	5486	4682	64698	61632	5.0
HARD PRESSED BD.[not in total](c)	155	175	157	2150	2180	-1.4

WOOD PULP (ALL GRADES)	Nov. 1979	Oct. 1979	Nov. 1978	Jan - Nov. 1979	Jan - Nov. 1978	% Change 79/78
Dissolving & Special Alpha	130	148	108	1379	1314	5.0
Bleached Sulphite	121	126	95	1258	1333	-5.6
Unbleached Sulphite	33	35	32	366	299	22.7
Bleached & Semi-Bl. Sulph.	1561	1608	1424	16663	15831	5.3
Unbleached Sulphate	1647	1722	1586	18092	17511	3.3
Semichemical	435	442	350	4422	3714	19.1
Groundwood and Thermo-Mechanical	378	389	371	4112	4009	2.6
TOTAL PULP DIVISION DATA	4304	4470	3965	46293	44011	5.2
Defib. Exploded & Screws E	254	289	261	2916	2912	0.1
TOTAL WOOD PULP PRODUCTION	4559	4759	4226	49209	46922	4.9

Note: Paperboard cumulative totals include revisions not available monthly.

(s) - Shipments R - Revised E - Estimate
P - Preliminary (c) - Census Data - Production, last 2 months estimated.

January 25, 1980

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1977	1978	October	November	December		
Total Production (API)	59778	61632	5738	5486	4881	64698	5.0
Total Seasonally Adjusted (excluding hard pressed board)			5406	5476	5455	64778	5.0
Imports (including Products)	7432	9117	767	787	737	9096	-0.2
Exports (including Products)	3230	3373	340	310	283	3620	7.3
Apparent Consumption	63980 a	67376 b	5833	5953	5909	70173 c	4.2
Paper Production % Tonnage Capacity	91.9 s	91.4 s	97.5	95.7	85.2	95.6 hs	-
Paperboard Production % Tonnage Capacity	90.9 s	92.8 s	95.5	93.9	77.7	94.2 s	-
			September	October	November		
MARKET WOOD PULP PRODUCTION - Tons (000)	4819	5165	482	532	509	5715	9.4
TOTAL WOOD PULP PRODUCTION - Tons (000)..(f)	46652	47662	4088	4470	4304	50501	5.2
WOOD PULP IMPORTS - TONS (000)	3864	4025	323	358	373	4339	8.6
WOOD PULP EXPORTS - TONS (000)	2640	2599	275	265	255	2885	10.7
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS			September	October	November		
Wood Pulp..(k)	47596	48777	4171	4513	4368	51490	5.0
Waste Paper....(d)	14058	14760	1246	1385	1397	15520	5.1
Other (Census) E	745	666	52	56	54	656	-2.1
Total	62399	64203	5469	5953	5819	67666	5.0
..WOOD PULP - NON PAPER E	876	884	70	81	75	913	4.0
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	74807	77290	6448	7103	6723	80192	3.1
EMPLOYMENT (000)			October	November	December		
Paper and Allied Products.....Total	691.6	700.9	717.7	715.8	716.4	714.3	1.9
Pulp, Paper and Board Mills.....Total E	272.3	267.0	271.9	271.8	273.7	271.2	1.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products	5.96	6.52	7.34	7.41	7.45	7.11	9.1
Pulp, Paper Mills E	6.75	7.44	8.64	8.66	8.69	8.25	10.8
Paperboard Mills E	6.94	7.68	8.68	8.81	8.66	8.37	9.0
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1979 Q2	1979 Q3	1979 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)$	3.36	3.46	4.80	4.68	5.09	4.84	40.0
INDEX OF OUTPUT PER MAN-HOUR (1967=100)			August	September	October		
IN PULP, PAPER ...Production Workers RS	148.1	153.9	157.5	158.7	160.8	158.0 R	3.4
AND BOARD MILLS ...All Employees RS	144.0	148.4	151.8	152.9	155.0	152.3 R	3.1
PAPER AND ALLIED PRODUCTS (Million $)			September	October	November		
Industry Shipments (Dept. of Commerce)$	52368	57654	5544	5641	5576	66033	14.7
Pulp, Paper and Paperboard$	23701	25343	2565	2598	2613	30044	19.0
Inventories (End of Period) - Total Industry$	5628	5875	6422	6538	6622	6622	14.6
Pulp, Paper and Paperboard$	2102	2006	2137	2198	2245	2245	11.7
			1979 Q1	1979 Q2	1979 Q3		
Sales (Corporations Only, FTC)	45750	48982 RS	12997	13828	14133	54611	13.3
Earnings (Corporations Only, FTC)	2367	2598 RS	867	917	1162	3928	58.0
Depreciation (Corporations Only, FTC)	1663	1726 RS	447	479	481	1876	9.8
Net Worth (Corporations Only, FTC)	19704	20794 RS	21282	21808	22688	22688	12.3
PRICE INDEXES (Bureau of Labor Stats)1967=100			October	November	December		
Total Pulp, Paper and Allied Products	186.4	195.6	227.2	229.3	231.0	218.9	11.9
Wood Pulp	281.1	266.5	339.4	339.9	339.9	314.8	18.1
Waste Paper	187.2	191.2	206.7	220.0	221.2	206.6	8.1
Paper	194.3	206.1	239.0	242.1	243.0	229.7	11.5
Paperboard	176.2	179.6	211.2	212.8	215.4	202.1	12.5
PAPER DEMAND (INDEXED: 1967=100)			October	November	December		
Total Paper Production $	131.0	133.1	144.7	145.1	140.4	142.3	6.9
Paper New Supply $	124.0	131.2	139.2	141.0	132.8	137.6	4.9
Total End - Use Index $	134.4	139.5	144.6	144.7	145.5	144.6	3.6
Production of Nondurable Goods $...(19%)	150.5	157.0	163.9	164.2	165.1	163.3	4.0
Disposable Income (Constant $) $...(23%)	138.6	145.2	148.0	148.4	148.6	148.5	2.3
Total Printing and Publishing $...(58%)	127.6	131.5	136.9	136.9	137.8	136.9	4.1
Trend Factor			Not Available				
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production $	127.0	132.8	136.0	139.4	142.8	138.0	3.8
Production for Domestic Use	271.3	227.3	133.8	137.0	142.6	136.4	3.8
Total End - Use Index $	141.6	147.7	151.4	150.7	151.0	151.6	2.6
Production of Consumer Goods $...(60.49%)	145.3	149.1	149.6	148.9	149.1	150.4	0.9
Production of Equipment $...(6.62%)	123.0	132.8	143.0	143.5	144.8	142.1	7.0
Production of Materials $...(32.89%)	138.6	148.3	156.4	155.6	155.8	155.9	5.2
Trend Factor			Not Available				
NEWSPRINT MARKETS			September	October	November		
Consumption by Publishers - Tons (000)	10228	10872	951	1019	1033	11235	4.2
Newspaper Pub. and Printing Emp. Total (000)	395.6	407.4	421.8	424.4	428.4	419.9	3.3
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.)	106489	115184	10803	12172	12940	119533	3.8
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	15482	17586	1599	1821	1693	19719	12.3
Inventories (End of Period)	1261	1482	1663	1597	1663	1663	15.4
Paper Only.....Sales	11799	13078	1202	1368	1271	14918	14.6
Inventories (End of Period)	873	1025	1109	1082	1110	1110	14.8
RETAIL TRADE (Million $)			October	November	December		
Total Retail Sales $	724020	798818	75611	76175	77020	882004	10.4
Nondurable Goods Stores Sales $	476188	520902	50143	50927	51362	578851	11.1
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)$	138.2	146.1	152.2	151.8	152.2	151.3	3.5
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100)	194.2	209.3	245.2	246.9	249.4	235.4	12.5
			September	October	November		
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)	181.5	195.4	223.4	225.4	227.5	216.3	11.1
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)	230.8	275.6	303.9	305.2	307.6	307.6	14.2
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$)			1979 Q2	1979 Q3	1979 Q4		
G.N.P. or Expenditure - Current $	1899.5	2127.6	2329.8	2396.5	2455.8	2368.6	11.3
G.N.P. OR Expenditure - 1972 $	1340.5	1399.2	1422.3	1433.3	1438.4	1431.2	2.3

lb/capita Popul.(mil)
.a - 590 216.8
.b - 617 218.5
.c - 637 220.4
.d - 1977 - 12192; 1978 - 13185
. 1979 A.R. Jan-Oct - 13042
. (000 tons) as pub. by Census
.E - Last month estimated by API

f - Wood Pulp Production excludes estimates for def. expl. & scrnss. Prod. was: 1977 - 3,218; 1978 - 3,155; 1979 A.R.Y-T-D 3,181 (000 tons)
s - Adjusted for holiday shutdowns
h - Adjusted to confore with API Division data
k - Excludes consumption of defib. & expl. pulp for hard p. bd.: '77 - 1,688; '78 - 1,655 (000 tons)

N.A. - Not Available
P - Preliminary
Q - Quarter
R - Revised
RS - Revised Series
w - Full year estimated by U.S. Dept. of Commerce
$ - Seasonally adjusted